(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 17 July 2003 (17.07.2003)

PCT

(10) International Publication Number WO 03/058838 A1

(51) International Patent Classification7: H04B 1/707, 7/26

(21) International Application Number: PCT/IB02/05348

(22) International Filing Date: 9 December 2002 (09.12.2002)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 02075028.7

7 January 2002 (07.01.2002) El

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(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

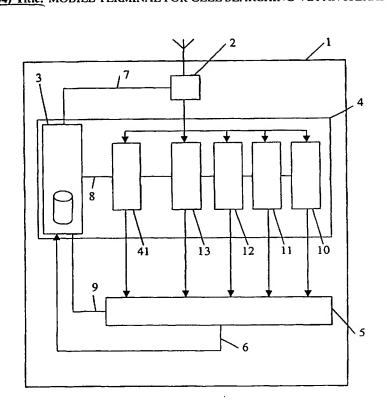
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

[Continued on next page]

(54) Title: MOBILE TERMINAL FOR CELL SEARCHING VIA AN ITERATIVE CORRELATION SYSTEM



(57) Abstract: Mobile terminals (1) for searching cells identified by code signals in Time Division - Synchronous Code Division Multiple Access (TD-SCDMA) systems comprise telecommunication correlation systems (4) for correlating input signals with stored code signals. The best correlation result defines the code signal used, which identifies the cell. By providing correlation systems (4) with controllers (3) for controlling correlation systems for performing iterative correlations and adapting correlation parameters per iterative correlation, the computational complexity is reduced much. Said correlation parameter corresponds with the length of code signals, which firstly is to be reduced and then per next iteration is to be increased, and/or with the number of code signals, which per next iteration is to be reduced. Said controllers (3) comprise comparators (5) for comparing correlation results for in dependence of comparison results adapting correlation parameters, and selectors (5) for in response to comparison results selecting a reduced number of code signals to be used for next correlations.

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